

CLAIM AMENDMENTS

256. (New) An audiovisual editing and video format conversion method, comprising:
receiving video information and audio information;
converting the video information and the audio information to a digital production format
having a frame rate of substantially 24 fps and an image dimension in pixels, when the video
information is not received in such a format;

storing the video information and the audio information in the digital production format on a
randomly-accessible, high capacity storage medium;

performing non-linear editing on the video information and the audio information in the digital
production format to create a digital edited version of the video information and the audio information,
the digital edited version having a frame rate of substantially 24 fps and an image dimension in pixels
in vertical and horizontal directions;

converting the digital edited version of the video information and the audio information to an
output signal having a predetermined display format having a frame rate that is greater than or equal to
24 fps and an image dimension in pixels that is greater than the image dimension in pixels in the
horizontal and/or vertical direction of the video information in its digital edited format; and
displaying the output signal in its predetermined display format on a display device.

257. - 264. (Canceled)

265. (New) The method of claim 256, wherein the predetermined display format has an image
dimension in pixels of 1920 x 1080.

266. (New) The method of claim 256, wherein the step of converting the digital edited version
of the video information to an output signal having a predetermined display format includes
performing a 3:2 pull-down operation on the edited version of the video information.

267. (Canceled)

268. (New) The method of claim 256, wherein the digital edited version of the video

information has an image aspect ratio and wherein the step of converting the digital edited version of the video information to an output signal having a predetermined display format includes changing the image aspect ratio of the edited version of the video information.

269. - 275. (Canceled)

276. (New) A system for capturing, recording, and converting the format of digital video information, comprising:

a video camera for capturing digital video information at a frame rate of substantially 24 frames per second;

a digital video recorder for recording the digital video information onto a randomly-accessible, high-capacity storage medium in a digital production format having a frame rate of substantially 24 fps and an image dimension in pixels in vertical and horizontal directions;

a graphics processor for converting the video information in the digital production format to an output signal having a predetermined display format having a frame rate that is greater than or equal to 24 frames per second and an image dimension in pixels that is greater than the image dimension in pixels in the horizontal and/or vertical direction of the video information in its digital production format; and

a display device for displaying the video information in its predetermined display format.

277. - 283. (Canceled)

284. (New) The system of claim 276, wherein the predetermined display format has an image dimension of 1920 x 1080 pixels.

285. (New) A method of capturing, recording, and converting the format of digital video information, comprising:

capturing digital video information at a frame rate of substantially 24 frames per second;

recording the digital video information onto a randomly-accessible, high-capacity storage medium in a digital production format having a frame rate of substantially 24 frames per second and

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an image dimension in pixels in vertical and horizontal directions;
converting the video information in its digital production format to an output signal having a predetermined display format having a frame rate that is greater than or equal to 24 fps and an image dimension in pixels that is greater than the image dimension in pixels in the horizontal and/or vertical direction of the video information in its digital edited format; and

displaying the output signal in its predetermined display format on a display device.

286. - 292. (Canceled)

293. (New) The method of claim 285, wherein the predetermined video display format has an image dimension in pixels of 1280 x 720.

294. - 296. (Canceled)

297. (New) The method of claim 256, wherein the predetermined display format embodies an HDTV format.

298. - 299. (Canceled)

300. (New) The method of claim 256, further including selecting the display format from a plurality of different display formats.

301. (New) The method of claim 300, wherein each of the plurality of display format has an image dimension in pixels and wherein at least two of the different display formats have different image dimensions.

302. (New) The method of claim 300, wherein each of the plurality of display formats has an aspect ratio and wherein at least two of the different display formats have different aspect ratios.

303. (New) The method of claim 300, wherein each of the plurality of display formats has a frame rate and wherein at least two of the different display formats have different frame rates.

304. (New) The method of claim 285, further including selecting the display format from a plurality of different display formats.

305. (New) The method of claim 304, wherein each of the plurality of display formats has an image dimension in pixels and wherein at least two of the different display formats have different image dimensions.

306. (New) The method of claim 304, wherein each of the plurality of display formats has a aspect ratio and wherein at least two of the different display formats have different aspect ratios.

307. (New) The method of claim 304, wherein each of the plurality of display formats has a frame rate and wherein at least two of the different display formats have different frame rates.

308. -309. (Canceled)

310. (New) The system of claim 276, wherein the video camera also captures audio information.

311. (New) The method of claim 256, wherein the predetermined display format embodies a widescreen format.

312. (New) An audiovisual editing method, comprising:
receiving video information and audio information;
converting the video information and the audio information to a digital production format
having a frame rate of substantially 24 fps and an image dimension of 1280 x 720 pixels, when the
video information is not received in such a format;
storing the video information in its digital production format and the audio information in a

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digital format on a randomly-accessible, high capacity storage medium;
performing non-linear editing on the video information in its digital production format to
create a digital edited version of the video information, the digital edited version having a frame rate
of substantially 24 fps and an image dimension in pixels.

313. (New) The method of claim 312, wherein the video and audio information are received by
an interface to a high-bandwidth data network.

314. (New) The method of claim 312, wherein the video and audio information are received by
a satellite receiver.

315. (New) The method of claim 312, wherein the video and audio information are received by
a broadcast signal receiver.

316. (New) The system of claim 276, wherein the digital video information captured by the
video camera has an RGB format, the system further including:

three low-pass filters, one associated with each of the R, G, and B components of the RGB
video signal, to remove all frequency components above a specified frequency;

an RGB-to-Y matrix circuit connected to receive each of the R, G, and B components, the
RGB-to-Y matrix circuit being operative to combine the signals in predetermined proportions and
produce a single luminance signal, Y;

a high-pass filter connected to the output of the RGB-to-Y matrix circuit to filter the Y signal
to remove all frequency components below a specified frequency;

a Y-to-RGB matrix circuit connected to the output of the high-pass filter, the Y-to-RGB matrix
circuit being operative to separate the high-pass filtered Y signal into R', G' and B' components in the
same proportion as previously combined by the RGB-to-Y matrix circuit; and

three mixers, each adapted to receive and R/R', G/G' and B/B' pair, respectively each mixer
being operative to mix the signals of its respective input pairs and generate R'', G'' and B'' signals
having full luminance bandwidth and reduced chrominance bandwidth.

317. (New) An audiovisual system, comprising:
an input to receive digital audio and video information;
graphics processor to convert the video information to a production format comprising an RGB
video signal when the video information is not received in such a format;
three low-pass filters, one associated with each of the R, G, and B components of the RGB
video signal, to remove all frequency components above a specified frequency;
an RGB-to-Y matrix circuit connected to receive each of the R, G, and B components, the
RGB-to-Y matrix circuit being operative to combine the signals in predetermined proportions and
produce a single luminance signal, Y;
a high-pass filter connected to the output of the RGB-to-Y matrix circuit to filter the Y signal
to remove all frequency components below a specified frequency;
a Y-to-RGB matrix circuit connected to the output of the high-pass filter, the Y-to-RGB matrix
circuit being operative to separate the high-pass filtered Y signal into R', G' and B' components in the
same proportion as previously combined by the RGB-to-Y matrix circuit;
three mixers, each adapted to receive an R/R', G/G' and B/B' pair, respectively, each mixer
being operative to mix the signals of its respective input pairs and generate R'', G'' and B'' signals
having full luminance bandwidth and reduced chrominance bandwidth;
a graphics processor to convert the R'', G'', and B'' signals into a video information in a digital
production format;
a randomly-accessible, high-capacity storage medium to store the video information in the
digital production format.

318. (New) The system of claim 317 further including a graphics processor for converting the
video information in the digital production format to an output signal having a predetermined video
display format.

319. (New) The system of claim 318 wherein the video information in the digital production
format has a frame rate of substantially 24 frames per second.